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United States Army

Redstone Technical Test Center (RTTC)







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Ranges, Roads and Facilities

Test Area 7: Vehicle Road Test Facility

Test Area 7 is a controlled input road course utilized to collect dynamic data used to develop laboratory vibration schedules. Test Area 7 is also used for road mobility testing.



Field data acquisition projects and road testing primarily involve collecting dynamic data from various transducers mounted on tactical hardware and subjected to actual field environments. Data are collected utilizing either onboard data acquisition equipment or telemetry. Road testing is primarily conducted at the RTTC Controlled Input Road Course that consists of various road surfaces. Shown below are the major facilities and equipment at Test Area 7.

Overview

Ranges, Road
Courses & Fac.

High Performance
Computer (HPC)

Unique Equipment
& Tools

Fiber Optic
Networks

Personnel/Tech
Expertise

- An RTTC Controlled Input Road Course that consists of over a dozen road surfaces and various grades
- A Telemetry Receiving Station, located at the Road Course, for acquiring all dynamic data
- A Mobile Instrumentation Support System (MISS) van is available for collecting telemetry data at remote sites or CONUS/OCONUS test stations

- A computer facility, located at Test Area 2, used for dynamic data reduction, analysis, and vibration specification development of data collected at Test Area 7



HIMARS on road
course



LMS shelter on 6"
washboard
surface



Variable height
bumps course

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